

PI 593676. *Beta vulgaris* L.

Breeding. C608; N457. Pedigree - BC3 F2(C918*4 x B883) where B883 is source of BCN resistance and C918 is rhizomania resistant population. Multigerm, self-fertile population that segregates for hypocotyl color and genetic ms. Segregates for resistance to rhizomania (BNYVV) and cyst nematode. Beet cyst nematode (BCN) resistance traces to *Beta procumbens*. Source of combined resistance from which to develop homozygous BCN resistant breeding lines.

PI 593677. *Beta vulgaris* L.

Breeding. C609; N461. Pedigree - BC3F2(C918*4 x B883) where B883 is source of BCN resistance and C918 is rhizomania resistant population. Multigerm, self-fertile population that segregates for hypocotyl color and genetic ms. Segregates for resistance to rhizomania (BNYVV) and beet cyst nematode (BCN). BCN resistance traces to *Beta procumbens*. Source of combined resistance to select homozygous BCN resistant breeding lines.

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PI 593678. *Gossypium barbadense* L.

Breeding. P70. GP-629. Pedigree - 6508-39-1-16 / 6807-26-10-3. Agronomically elite line. In 18 tests conducted over 2 years, averages 1160 kg ha⁻¹ of fiber. Fiber properties averaged 35.0 mm for 2.5% staple length, 45.0% for fiber uniformity, 30.7 g tex⁻¹ for T1 fiber strength, and 3.54 for micronaire. In 15 tests conducted over 2 years, averaged 88.5 cm in height.

PI 593679. *Gossypium barbadense* L.

Breeding. P71. GP-630. Pedigree - 7301-5-4-1 / 7306-21-2-2. In 18 tests conducted over 2 years, averaged 1049 kg ha⁻¹ in fiber yield. Fiber properties averaged 35 mm for 2.5% staple length, 48% for fiber length uniformity, 34.8 g tex⁻¹ for T1 fiber strength, and 3.57 for micronaire. Fiber whiter than typical for American Pima cottons, having a reflectance of 73.7 Rd. In 18 tests conducted over 2 years, averaged 102 cm in height.

PI 593680. *Gossypium barbadense* L.

Breeding. P72. GP-631. Pedigree - 6614-91-1-1 / 7402-126-1-1. In 8 tests conducted over 8 locations, averaged 1098 kg ha⁻¹ in fiber yield. Fiber properties averaged 35 mm for 2.5% staple length, 50% for fiber length uniformity, 35.3 g tex⁻¹ for T1 fiber strength, and 3.54 for micronaire. Fiber whiter than typical for American Pima cotton, having a reflectance of 75.0 Rd. Plant height averaged 87.9 cm over 8 tests at 8 locations.

PI 593681. *Gossypium barbadense* L.

Breeding. P73. GP-632. Pedigree - 6614-91-1-1 / 7301-5-4-5. In 45 tests conducted over 5 years, averaged 1192 kg ha⁻¹ in fiber yield. Fiber properties averaged 34.5 mm for 2.5% staple length, 49% for fiber length uniformity, 34.7 g tex⁻¹ for T1 fiber strength, and 4.09 for micronaire. Plant height averaged 94.4 cm over 45 tests and 5 years.